

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/712,937	TANABE, KAZUYA	
	<b>Examiner</b>	<b>Art Unit</b>	
	Vincent F. Boccio	2616	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/6/00.
2. ☒ The allowed claim(s) is/are 1-4, RENUMBERED TO 1-4 RESP.
3. ☒ The drawings filed on 06 November 2000 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date <u>3/10/04</u> | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                              | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

Art Unit: 2616

**DETAILED ACTION**

The Group and/or Art Unit location of your application in the PTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Group Art Unit 2616.

**Allowable Subject Matter**

1. Claims 1-4 are allowed.
2. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the prior art of record performs fast forward trick play modes working with MPEG encoded video having three frame types (I, P and B), trick modes of operation by utilizing I frames only, utilizing I and P frames, even utilizing I, P and B frames (lower trick play speeds above 1 X), also thins frames, such as I frames for higher speeds and not using inter-frames (Ps and/or Bs), further picking or calculating future based on speed and formula,

but the prior art of record fails to teach, disclose or fairly suggest, selection of next frames to perform trick play based on the recited method comprising:

O wherein the reproduction method for reproducing video signals from a medium at a speed K times higher than a regular speed (1X/normal or real time video normal playback speed), wherein the video is compressed with respect to MPEG the method comprising:

- providing an algorithm, wherein,
  - if there is an I picture in the plurality of consecutive pictures,
    - a last I picture** is selected and output;
  - wherein, if there is no I picture,
    - a first P picture** is selected and output, and wherein;
  - if there is no P picture,

Art Unit: 2616

**one of B pictures** is selected and output;

- if, in said plurality of consecutive pictures, there is no P picture after the output picture, then,
- selecting one picture from k pictures following said plurality of pictures according to said algorithm and outputting the selected picture as picture that follows said output picture; and,
- if, in said plurality of consecutive pictures, there is at least one P picture after the output picture, selecting one picture from a first P picture after said output picture and all following pictures included said plurality of pictures and k pictures following said plurality of pictures according to said algorithm, and outputting the selected picture as a picture that follows said output picture.

Claim 3 is the corresponding apparatus claim with respect to the method claim 1 above, and is allowed for substantially the same reasons as method claim 1, for recited the same methodology for selecting next images when performing a higher than normal speed reproduction operations/modes.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

**Contact Fax Information**

Any response to this action should be mailed to:  
Commissioner of Patents and Trademarks  
Washington, D.C. 20231

or faxed to:

Art Unit: 2616

(703) 872-9314, (for formal communication intended for entry)

or:

(703) 308-5359, (for informal or draft communications, please label "PROPOSED" or "DRAFT")


Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

**Contact Information**

Any inquiry concerning this communication or earlier communications should be directed to the examiner of record, Monday-Thursday, 8:00 AM to 5:00 PM Vincent F. Boccio (703) 306-3022.

Any inquiry of a general nature or relating to the status of this application should be directed to Customer Service (703) 306-0377.

Primary Examiner, Boccio, Vincent  
12/13/04

  
VINCENT BOCCIO  
PRIMARY EXAMINER